|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Class** | **Metric** | **Base Model** | **ResNet Model** | **Best Model** |
| **MildDemented (0)** | Accuracy | 0.8678655199374511 | 0.8287724784988272 | 0.8592650508209538 |
|  | Precision | 0.5833333333333334 | 0.3717948717948718 | 0.4 |
|  | Recall | 0.19553072625698323 | 0.3240223463687151 | 0.0111731843575419 |
| **ModerateDemented (1)** | Accuracy | 0.9921813917122753 | 0.9906176700547302 | 0.9906176700547302 |
|  | Precision | 1.0 | 0.0 | 0.0 |
|  | Recall | 0.16666666666666666 | 0.0 | 0.0 |
| **NonDemented (2)** | Accuracy | 0.6059421422986708 | 0.6833463643471462 | 0.6489444878811571 |
|  | Precision | 0.7786885245901639 | 0.6804915514592934 | 0.6485225505443235 |
|  | Recall | 0.296875 | 0.6921875 | 0.6515625 |
| **VeryMildDemented (3)** | Accuracy | 0.5285379202501954 | 0.602814698983581 | 0.5785770132916341 |
|  | Precision | 0.42034943473792397 | 0.4364406779661017 | 0.42789223454833597 |
|  | Recall | 0.9129464285714286 | 0.45982142857142855 | 0.6026785714285714 |

**Note:** The ResNet model incorrectly predicted an unseen image as "VeryMildDemented" instead of "MildDemented".